

## CAB-0-SIL® M-5F



CAB-0-SIL M-5F food-grade silicas are high-purity materials that can act as carriers, flavor masking, anti-settling, thickening, anti-caking, and fat substitution additives in food applications.

**CAB-0-SIL M-5F food-grade fumed silicas are characterized by:**

- High purity, food-grade silica quality;
- Tasteless, colorless, odorless;
- Hydrophilic surface;
- Low bulk density.

### Application Information

#### Carrier, Flavor Masking Agent

CAB-0-SIL food-grade fumed silicas adsorb liquids to produce dry powders that can be easily mixed with other solid ingredients. At higher concentrations, these grades can act as flavor masking agents.

#### Microencapsulation

CAB-0-SIL food-grade fumed silicas can encapsulate volatile compounds, such as flavors, reducing evaporation rates.

#### Spray Drying Aid

CAB-0-SIL food-grade fumed silicas can reduce clogs in the spray dryer atomizer, deliver higher powder recovery, and increase throughput by facilitating lower spray dryer outlet temperatures.

#### Lipid Substitution

CAB-0-SIL food-grade fumed silicas can promote the substitution of fat contained in foods by:

- a) facilitating a more homogeneous lipid distribution to enhance the fat's effectiveness; and
- b) acting as an effective stabilizer of Pickering emulsions that replace fat fractions.

#### Thickening, Anti-Settling, and Emulsification

CAB-0-SIL food-grade fumed silicas are effective thickening, emulsification, gelling, and anti-settling agents with low sensitivity to temperature and pH.

#### Free Flow, Transparency, and Storage Stability

CAB-0-SIL food-grade fumed silicas act as a spacer and moisture adsorbent, reducing lump formation and crystallization to facilitate free flow, exact dosing, and storage stability.

# CAB-O-SIL<sup>®</sup> M-5F

## Performance Characteristics

FEATURE	CAB-O-SIL M-5F FUMED SILICA	CAB-O-SIL EH-5F FUMED SILICA
Adsorption	***	*****
Microencapsulation	***	*****
Dispersability	*****	***
Anti-setting	***	***
Anti-caking	***	***
Transparency	***	*****
Surface Area	200 m <sup>2</sup> /g	380 m <sup>2</sup> /g

Performance: \*\*\*\*\* best    \*\*\* good

## Packaging Options

CAB-O-SIL M-5F fumed silicas are packaged in multi-wall Kraft paper bags (10kg net weight) with an outer LDPE liner.

## Material Safety Data Sheet

A Material Safety Data Sheet for these products may be obtained by contacting the Cabot Sanmar office in your region.

## Regulatory Compliance

A regulatory compliance information package may be obtained by contacting the Cabot Sanmar office in your region.

## Product Sales Specifications

Sales specifications for the product may be obtained by contacting a sales representative at the Cabot Sanmar office in your region.



For additional information, contact our representatives in your region.

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